



NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
State Capitol  
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1974

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: 730001
4. Source Unit Number (from Permit to Operate): 2
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>400,016 Tons</u> (Specify Units)  Delivered Cost of fuel <u>\$4.4824/Ton</u> (\$/Unit Quantity)	Type <u>NA</u> Quantity per year _____ (Specify Units)  Delivered Cost of fuel _____ (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	8.70 5.44 6.82	
PERCENT SULFUR Max. Min. Avg.	0.98 0.40 0.69	
BTU PER UNIT BTU/lb. Max. Min. Avg.	7170 6880 6992	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>NA</u>		Type <u>Lignite</u>	Type <u>NA</u>
	Units <u>Tons</u>	Units <u>          </u>		Units <u>Tons</u>	Units <u>          </u>
Jan.	41,292		July	28,204	
Feb.	38,340		Aug.	35,930	
March	39,444		Sept.	15,581	
April	18,494		Oct.	27,367	
May	41,782		Nov.	39,480	
June	35,149		Dec.	38,953	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>NA</u> Units <u>          </u>
Maximum	56.9	
Average	53.3	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 47

Days Per Week 7 Peak Season Jan., Dec.  
(Specify Months of Year)

Total Hours Per Year 7498.0 (1974)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	821	3,078
Sulfur Dioxide	1003	3,760
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate based on tests run in November 1971.  
Sulfur Dioxide based on tests run in August 1972.  
No tests have been run for Nitrogen Oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus

Title Asst. Manager, Power Production Phone (701) 224-3000

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Earl F. Backhaus Date 2/13/75